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MEMORANDUM FOR: Deputy Director of Central Intelligence

Executive Director-Comptroller THROUGH

Cost of

Director, Office of Planning, Programming

& Budgeting

Assistant Deputy Director for Intelligence

: Request for Approval to Contract for the SUBJECT

Fabrication of a Prototype Scan and Search Photo Interpretation Station

at a with from FY-1970 R&D Funds

DDR-Dupe

This memorandum requests approval for the commitment of R&D funds for an NPIC contract. The specific request is stated in Paragraph 8.

2. During Fiscal Year 1969, NPIC contracted with the
for the detailed design of a Scan and Search Photo
Interpretation Station, under Contract 25x1
Two subsequent changes-in-scope increased this to a total
cost of This design contract is currently nearing to the contract is contract in the contract is contract.
completion and will provide all the necessary technical and and
design data for subsequent fabrication of a prototype in-
strument. This memorandum requests funds to cover a follow-
on contract for the fabrication of the prototype.

This photo interpretation station, designed specifically to accomplish the scan and search task, will consist of a high-resolution, rear-projection viewer combined with an integral light table. This instrument was conceived in direct response to the requirement to scan the large volumes of film forecast 

It will permit the interpreter to quickly and simply load two rolls 25X1 imagery (one from each camera) and then view either roll projected upon a 30" X 30" high-resolution screen. When an area

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requiring more detailed investigation appears on the screen, the interpreter can automatically advance the same imagery to the integral light table and view the film either monoscopically or in stereo with a microstereoscope. This aproach, therefore, combines the advantages of rear-projection and direct viewing in a single system.

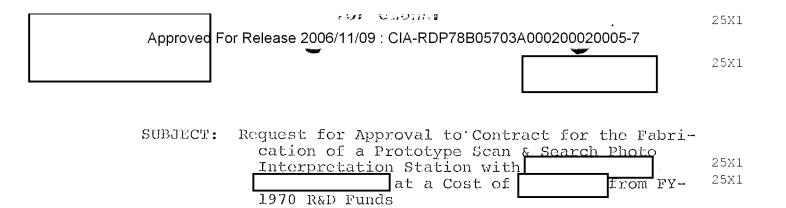
In our estimation, the primary advantage of the proposed photo interpretation station will probably lie in the area of operational effectiveness; i.e., diminution of the probability of overlooking an intelligence "find." In addition, there may be some increase in efficiency with respect to the scan and search operation because the instrument, as configured, comprises what we believe to be the most efficient combination possible of direct and rear-projection viewing. The greatly increased field of view provided by the rear-projection viewer portion of the station

length of the roll can be 25X1 projected on the screen at 4X magnification) is expected to provide the photo interpreter with the additional contextual data, often so important to the photo interpretation process. The light table and microstereoscope section of the station will then allow the photo interpreter to avail himself instantly of the higher contrast and magnification necessary for confirming and analyzing specific targets without burdening him with the tedious, time-consuming task of removing the film from the projector and reloading it on a light table. Utilizing the prototype, we will conduct operational testing and data collection to ascertain, as empirically as possible, the effectiveness of the instrument; results of these tests, along with a cost/effectiveness analysis, will form the basis for any decision as to whether or not to incorporate the station into the NPIC equipment inventory.

The proposed program requires seventeen months for the fabrication of the prototype instrument. The probability of success of this program is considered to be high because

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sidered during the systems, the transall been designed figuration in the acritical consideration for this development of any screet it is anticipated in the near future will furnish much and contrast, the design chosen off that of any rear-other design feat result of recomments.	potential high-risk areas to extensive design phase. Isport system, electronics, to provide the most effice smallest possible package deration at the Center. The nent is one having the higher now commercially available that a current NPIC researce, provide a lenticular-ty higher performance, both an existing screens. The offers better overall optical projection system currently cures incorporated in this endations made by the interpretation Research Programmer.	The optical and controls ha ient overall con, since space is e screen selecte est resolving ble. However, rch effort will, pe screen which in resolution ptical system performance the station are the under	đ
was chosen because in developments of solicited bids for and foreign compared demanding that on their proposation of overruns. Compared design; in excellent as it optics for the Heavilt for NBTC	the selection of this type. During the control of this type. During the control of the optical system designation. The development objusting the lowest bid submitting the lowest bid as the most appealing technomitted a proposal at lead one at lead and both at lis which strongly suggested as performance on this task was on the design and fabrication of the contract the fabrication of	ected contractors proven success lesign phase, yn from 13 domest lectives were so the fixed hical proposal.  ttached condition the possibility for the k has been as ication of the ator, also being tuation, now the optics for e basis. NPIC	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
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